

## AIRCRAFT ENGINE SENSOR NETWORK USING WIRELESS SENSOR COMMUNICATION MODULES

### ABSTRACT OF THE DISCLOSURE

A wireless communication module is used to implement an ad-hoc wireless sensor network. The wireless communication module is configured to interface with numerous and varied types of sensors and, in one particular embodiment, is used to implement an ad-hoc wireless sensor network for an aircraft engine. The modules are also configured to implement various functions to optimize ad-hoc network functionality and to minimize the electrical power dissipated by each module in the ad-hoc network.